(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT) 10/521897

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 13 February 2003 (13.02.2003)

PCT

(10) International Publication Number WO 03/012333 A2

(51) International Patent Classification7:

(21) International Application Number: PCT/US02/24579

(22) International Filing Date: 1 August 2002 (01.08.2002)

(25) Filing Language:

English

F16M

(26) Publication Language:

English

(30) Priority Data: 60/309,357

1 August 2001 (01.08.2001) US

(71) Applicant and

(72) Inventor: GUROSIK, John, O. [US/US]; 800 Brandy Camp Road, Kersey, PA 15846 (US).

(74) Agents: PREPELKA, Nathan, J. et al.; Webb Ziesenheim Logsdon Orkin & Hanson, P.C., 700 Koppers Building, 436 Seventh Avenue, Pittsburgh, PA 15219-1818 (US).

(81) Designated States (national): AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA,

CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK (utility model), SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.

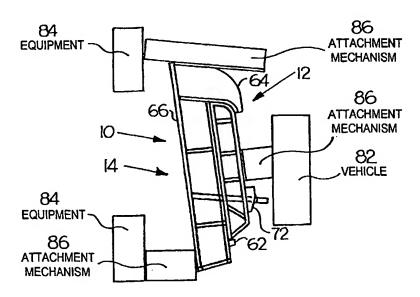
(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

 without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: COUPLING APPARATUS



(57) Abstract: A coupling apparatus (10) includes a first coupling element (12) and a second coupling element (14). The first coupling element (12) has a mating surface (16) and a wedging surface (22) at the first end (18) of the first coupling element (12). An engagement surface (30) is located at the second end (20) of the first coupling element (12) and an alignment orifice (32) extends through the first coupling element (12). A second coupling element (14) also includes a mating surface (46) and a wedge member (48) at the first end (42) of the second coupling element (14). This wedge member (48) engages the wedging surface (22). An alignment member (60) at least partially extends through the alignment orifice (32), and a locking tab (62) extends from the second coupling element mating surface (46) and engages the engagement surface (30).

